

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-5. (Currently Canceled)

6. (New) A spreader system without an electric cable, comprising:

a spreader for lifting a container;

a headblock; and

a plurality of pulley sets disposed on the headblock;

wherein:

each pulley of the pulley sets is coupled with a feared ring;

a plurality of gears are fixed on the headblock;

a tapered coupling is fixed on a gear shaft and is connected with a planetary transmission, the end of which is connected to a bi-directional piston pump through a hydraulic accumulating power station, the hydraulic accumulating power station having a hydraulic accumulator, a pipeline, an oil tank, an electric generator, a battery connected to and charged by the electric generator, and an hydraulic motor connected to the electric generator and controlled by a magnetic valve; and

on the spreader there are a remote control transmitter and a remote control receiver for transmitting/receiving signals to/from a remote control receiver and a remote control transmitter in a cab of a container crane;

wherein:

while crane hoists and/or trolley of the container crane move, a wire rope rotates the pulley sets which drives the bi-directional piston pump through the hydraulic accumulating power station, thereby delivering energy from the bi-directional piston pump to the hydraulic accumulating power station and accumulatively forming power on the spreader to drive the spreader by remote control without the electric cable.

7. (New) The spreader system of claim 6, wherein the bi-directional piston pump is connected to the hydraulic accumulating power station by means of a bridge circuit having four check valves.
8. (New) The spreader system of claim 6, wherein a plurality of shock-absorbing buffers are disposed proximate to where the hydraulic accumulating power station is fixed on the spreader.
9. (New) The spreader system of claim 6, wherein a plurality of shock-absorbing rubber buffers are fixed on a plurality of trestles for the remote control transmitter and the remote control receiver, respectively.
10. (New) The spreader system of claim 6, wherein a plurality of shock-absorbing wire rope buffers are fixed on a plurality of trestles for the remote control transmitter and the remote control receiver, respectively.